

## INDEX TO VOLUME 99

**New scientific names are in bold face.**

- Achene micromorphology 368–375  
*Agropyron elongatum* 161–165  
Alaska 33–55  
*Amphicarpaea bracteata* 64–82  
Amphicarpy 64–82  
Anderson, Jeanne E., Sarah Cooper-Ellis, and Benito C. Tan. New distribution notes on the mosses of Massachusetts. 352–367  
ANNOUNCEMENTS:  
NEBC Graduate Student Research Award 278  
1997 Jesse M. Greenman Award 191  
Apocynaceae 252–262  
Apocynoideae 252–262  
Appalachian Mountains 118–133  
Appalachian quillwort (*Isoetes appalachiana*, sp. nov.; Isoetaceae), a new pteridophyte from the eastern United States. 118–133  
Arctic 263–274  
Autogamy 56–63
- Bennett, James P. Nested taxa-area curves for eastern United States floras. 241–251  
Beyazoglu, Osman 368–375  
Biogeography 101–117, 344–351  
Blondeau, Marcel 263–274  
Bogle, A. Linn 229–240, 302–318  
BOOK REVIEWS:  
Catkin-Bearing Plants of British Columbia. 182–184  
Common Families of Flowering Plants. 380–381  
Ferns and Allied Plants of New England. The. 382–384  
Forgotten Pollinators. The. 378–379  
Fungi and Environmental Change. 95  
New England's Mountain Flowers. 376–377
- Plants in Changing Environments. 92–94  
Wild Orchids of the Northeastern United States. 185–187  
Botanical reminiscences. 83–91  
Branch initiation in the lichen *Cladonia cristatella* (British Soldiers). 23–32  
Branching patterns 23–32  
Britton, Donald M. 118–133  
Brunton, Daniel F. and Donald M. Britton. Appalachian quillwort (*Isoetes appalachiana*, sp. nov.; Isoetaceae), a new pteridophyte from the eastern United States. 118–133  
Bryophyte and vascular flora of Little Dollar Lake Peatland, Mackinac County, Michigan. The. 195–222
- Cactaceae 223–228  
Callahan, Hilary S. Infraspecific differentiation in the *Amphicarpaea bracteata* (Fabaceae) species complex: varieties and ecotypes. 64–82  
Campbell, Christopher S. 56–63  
Canada 161–165, 263–274  
Canonical analysis 64–82  
*Cardamine microphylla* subsp. *blaisdelli*, comb. et stat. nov. 40  
*Carex* section *Mitrateae* 368–375  
Carter, Richard and Stanley D. Jones. Notes on the *Cyperus retroflexus* complex (Cyperaceae) with three nomenclatural proposals. 319–334  
Cartica, Robert J. 134–147  
Catling, Paul M. 263–274  
Cayouette, J., Marcel Blondeau, and Paul M. Catling. Pollen abortion in the *Ranunculus gmelini-hyperboreus* group (Ranunculaceae, sec-

- tion *Hecatonia*) and its taxonomic implications. 263-274
- Chromosome numbers and notes on the taxonomy of selected Alaskan vascular plants. 33-55
- Chromosome numbers of new *Ulmus* (elm) taxa introduced from China. 148-151
- Cirsium* 152-160
- Cladoniaceae 23-32, 287-301
- Climate change and the development of coastal plain disjunctions in the central Great Lakes region. 101-117
- Cooper-Ellis, Sarah. 352-367
- Corylopsis* complex 302-318
- Crow, Garrett E. 195-222
- Cyperaceae 319-334, 368-375
- Cyperus* section *Umbellati* 319-334; *floribundus*, stat. nov. 330; *pseudothrysiflorus*, stat. nov. 330; *retroflexus* var. *pumilus*, comb. nov. 328-330; *retroflexus* var. *retroflexus* 328; *uniflorus* 328; key to *Cyperus retroflexus* and allies 330-333
- Cytology 148-151
- Cytotaxonomy 148-151
- Dabydeen, Simon. Natural hybridization in the genus *Cirsium*: *C. altissimum* × *C. discolor*—cytological and morphological evidence. 152-160
- Darbyshire, S. J. Tall wheatgrass, *Elymus elongatus* subsp. *ponticus*, in Nova Scotia. 161-165
- Discriminant analysis 1-22
- Disjunct populations 101-117
- Ecotypes 64-82
- Elymus elongatus* subsp. *ponticus* 161-165
- Endangered species 134-147
- Evidence for hybridization of two Old World *Rhamnus* species—*R. cathartica* and *R. utilis* (Rhamnaceae)—in the New World. 1-22
- Fabaceae 64-82
- Fern 335-343
- Flora 195-222, 241-251, 283-286
- Gil-ad, Nir L. and Anton A. Reznicek. Evidence for hybridization of two Old World *Rhamnus* species—*R. cathartica* and *R. utilis* (Rhamnaceae)—in the New World. 1-22
- Goodman, George Jones 166-181
- Goodwin, Richard H. Botanical reminiscences. 83-91
- Great Lakes 101-117
- Growth dynamics 23-32, 287-301
- Hamamelidaceae 229-240, 302-318
- Hammer, Samuel. Branch initiation in the lichen *Cladonia cristatella* (British Soldiers). 23-32
- Hammer, Samuel. The unusual deflexed podetium of the lichen *Cladonia incrassata*. 287-301
- Hellquist, C. Eric and Garrett E. Crow. The bryophyte and vascular flora of Little Dollar Lake Peatland, Mackinac County, Michigan. 195-222
- Hemiparasite 134-147
- Hybrid sterility 152-160
- Hybrid swarm 1-22
- Hybridization 1-22, 152-160, 263-274
- HYWIN 1-22
- Infraspecific differentiation in the *Amphicarpaea bracteata* (Fabaceae) species complex: varieties and ecotypes. 64-82
- Infraspecific variation 64-82
- Interspecific relationships and genetic divergence of the disjunct genus *Liquidambar* (Hamamelidaceae) inferred from DNA sequences of plastid gene *matK*. 229-240
- Introduced species 1-22
- Isoetaceae 118-133
- Isoetes appalachiana*, sp. nov. 118-133

- Isotria medeoloides* 56–63  
ITS DNA sequences 302–318
- Jackson, Stephen T. and Darren K. Singer. Climate change and the development of coastal plain disjunctions in the central Great Lakes region. 101–117
- Jaltomata paneroi*, sp. nov. 283–286
- Jones, Stanley D. 319–334
- Kelso, Sylvia 33–55  
Klein, Anita S. 229–240, 302–318
- Lawson, Cheryl A. Recollections of botanist George Jones Goodman. 166–181
- Leiva G., Segundo 283–286
- Li, Jianhua, A. Linn Bogle, and Anita S. Klein. Interspecific relationships and genetic divergence of the disjunct genus *Liquidambar* (Hamamelidaceae) inferred from DNA sequences of plastid gene *matK*. 229–240
- Li, Jianhua, A. Linn Bogle, and Anita S. Klein. Phylogenetic relationships in the *Corylopsis* complex (Hamamelidaceae): Evidence from sequences of the internal transcribed spacers of nuclear ribosomal DNA and morphology. 302–318
- Lichen evolution 23–32
- Liquidambar* 229–240
- Macropharynx* 252–262
- Maine 56–63
- Massachusetts 352–367
- matK* 229–240
- Michigan 1–22, 195–222
- Micromorphological studies of *Carex* section *Mitratae* (Cyperaceae) in Turkey. 368–375
- Mione, Thomas and Segundo Leiva G. A new Peruvian species of *Jaltomata* (Solanaceae) with blood-red floral nectar. 283–286
- Morales, J. Francisco. A synopsis of the genus *Macropharynx* (Apocynaceae). 252–262
- Morphogenesis 287–301
- Mosses 207–210, 352–367
- Murray, David F. and Sylvia Kelso. Chromosome numbers and notes on the taxonomy of selected Alaskan vascular plants. 33–55
- Natural hybridization in the genus *Cirsium*: *C. altissimum* × *C. discolor*—cytological and morphological evidence. 152–160
- NEBC Meeting News 96–98, 188–190, 275–277
- Nebraska 152–160
- Nested taxa-area curves for eastern United States floras. 241–251
- New distribution notes on the mosses of Massachusetts. 352–367
- New Jersey 134–147
- New Peruvian species of *Jaltomata* (Solanaceae) with blood-red floral nectar. A, 283–286
- Notes on the *Cyperus retroflexus* complex (Cyperaceae) with three nomenclatural proposals. 319–334
- Nova Scotia 161–165
- Obee, Elizabeth M. and Robert J. Cartica. Propagation and reintroduction of the endangered hemiparasite *Schwalbea americana* (Scrophulariaceae). 134–147
- Oleandra* 335–343; *articulata* 338–339; *Bradei* 339–340; *Lehmannii* 340–341; *pilosa* 340; key to American species 338
- Oleandraceae 335–343
- Olgun, Arzu and Osman Beyazoglu. Micromorphological studies of *Carex* section *Mitratae* (Cyperaceae) in Turkey. 368–375
- Opuntia pinkavae* (Cactaceae), a new species from Arizona and Utah. 223–228
- Opuntia* subgenus *Opuntia* 223–228

- Paleoecology 101–117  
Parfitt, Bruce D. *Opuntia pinkavae* (Cactaceae), a new species from Arizona and Utah. 223–228  
Peatland 195–222  
Peru 283–286  
Phenotypic plasticity 64–82  
Phylogenetic relationships in the *Corylopsis* complex (Hamamelidaceae): Evidence from sequences of the internal transcribed spacers of nuclear ribosomal DNA and morphology. 302–318  
Phylogeny 229–240, 302–318  
Poaceae 344–351  
Pollen abortion in the *Ranunculus gmelinii-hyperboreus* group (Ranunculaceae, section *Hecatomia*) and its taxonomic implications. 263–274  
Polyploidy 223–228  
Prickly-pear 223–228  
Propagation and reintroduction of the endangered hemiparasite *Schwalbea americana* (Scrophulariaceae). 134–147  
Pteridophytes 118–133, 211, 335–343  
Quebec 161–165  
Range expansion northward in Illinois and into Wisconsin of *Tridens flavus* (Poaceae). 344–351  
Ranunculaceae 263–274  
*Ranunculus* 263–274  
RECOLLECTIONS:  
Botanical Reminiscences. 83–91  
Recollections of botanist George Jones Goodman. 166–181  
Reproductive biology of *Isoetria medeoloides* (Orchidaceae). 56–63  
Reviewers of manuscripts, 1997. 385  
Reznicek, Anton A. 1–22  
Rhamnaceae 1–22  
*Rhamnus* 1–22  
Santamour, Frank S., Jr. and George H. Ware. Chromosome numbers of new *Ulmus* (elm) taxa introduced from China. 148–151  
*Schwalbea americana* 134–147  
Scrophulariaceae 134–147  
Self compatibility 56–63  
Singer, Darren K. 101–117  
Solanaceae 283–286  
Species-area curves 241–251  
Species reintroduction 134–147  
*Sphagnum* 195–222  
Synopsis of the genus *Macrophyrynix* (Apocynaceae). A. 252–262  
Systematic notes on *Oleandra*. 335–343  
Tall wheatgrass, *Elymus elongatus* subsp. *ponticus*, in Nova Scotia. 161–165  
Tan, Benito C. 352–367  
Taxonomic ranks 241–251  
*Tridens flavus* 344–351  
Tropical ferns 335–343  
Tryon, Rolla. Systematic notes on *Oleandra*. 335–343  
*Ulmus* 148–151  
Unusual deflexed podetium of the lichen *Cladonia incrassata*. The. 287–301  
Vitt, Pati and Christopher S. Campbell. Reproductive biology of *Isoetria medeoloides* (Orchidaceae). 56–63  
Ware, George H. 148–151  
Williams, Andrew H. Range expansion northward in Illinois and into Wisconsin of *Tridens flavus* (Poaceae). 344–351

